

# Howard Lan

**Email:** howardjameslan@gmail.com  
**LinkedIn:** linkedin.com/in/howardjlan

**Phone:** (832) 600-7772  
**Website:** howardjlan.github.io

**Citizenship:** U.S.A.

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Education	<b>Rice University</b> <i>Master of Computer Science (Data Science Specialization), 3.82 /4</i> <ul style="list-style-type: none"><li>Coursework includes algorithms, machine learning, data visualization, oop programming, cloud computing, databases, computer systems, and more. TA for COMP 680: Statistics and Data Science.</li></ul>	Houston, TX Graduating May 2021
	<b>University of Texas at Austin</b> <i>Bachelor of Science in Mathematics (Scientific Computation Specialization), 3.60 /4</i> <ul style="list-style-type: none"><li>Coursework focused in statistics, applied math, scientific computing, and user experience.</li><li>Activities: intramural soccer, math club, texas advanced computing center volunteer.</li></ul>	Austin, TX Aug 2014 – Dec 2018
Experience	<b>Cirrus Logic</b> <i>Data Science Intern (Product Engineering Team)</i> Semiconductor company that designs audio products for companies like Apple and Samsung. <ul style="list-style-type: none"><li>Developed a web app (using R, Shiny framework), from conception to completion, to analyze silicon wafers and help engineers visually monitor false holds/false releases rates based on wafer bin limits.</li><li>Consulted with product engineers, database administrators, and statisticians to design UI.</li><li>Improved the speed of markov chain monte carlo algorithm greatly by using Rcpp and C++.</li><li>Wrote complex SQL queries to retrieve silicon wafer data from Oracle database.</li><li>Analyzed silicon wafer data using Python and Excel.</li></ul>	Austin, TX Summer 2018
	<b>SAS Institute</b> <i>Software Developer Intern (Visual Analytics Team)</i> Analytics software company that provide a suite of software to help analyze, manage, and report data. <ul style="list-style-type: none"><li>Fixed over 30 high priority UI defects and worked on features in SAS Visual Analytics working with JavaScript/TypeScript, HTML, CSS, jQuery, and OpenUI5.</li><li>Presented poster of summer work at intern expo to other interns and company leaders.</li><li>Participated in A/B testing to help improve product usability.</li><li>Collaborated with software developers, testers, managers, ux designers, and technical writers.</li></ul>	Cary, NC Summer 2016 and 2017
	<b>University of Texas at Austin</b> <i>Research Assistant (Linguistics Department)</i> Member of a research group that focused on analyzing mixed language documents. <ul style="list-style-type: none"><li>Refactored Python code to improve maintainability.</li><li>Increased the time to process large corpora significantly by using Python multiprocessing.</li><li>Created visualizations and plots in R.</li></ul>	Austin, TX Spring 2017
Skills	<b>Languages:</b> Python, R, Java, HTML, CSS, C++, SQL. <b>Big Data Tools:</b> Hadoop, Spark, Hive. <b>Data Visualization:</b> Python (Matplotlib, Plotly, Seaborn), R (ggplot, Plotly), Tableau. <b>Database Management Systems:</b> MySQL, Oracle, MongoDB.	
Summary	Current master's student at Rice who is passionate about mathematics and computer science. Looking for full time positions in data science and engineering starting June 2021.	